Washington State Technology Transfer Center

2002 ANNUAL REPORT

May 2003

**Washington State
Department of Transportation**

2002 - A Rewarding Year

The year 2002 found the WST2 Center expanding its training program and firmly establishing programs started in 2001. More and more we see an increased demand for complete training programs focused on specific topic areas. The Road & Street Maintenance Program and the Regional 4(d) Maintenance Programs implemented in 2002 are two examples of this need. As a result, we are beginning to formalize our own training and partner more closely with the Transpeed program at the University of Washington to enhance and advance professional and technical workforce development.

The WST2, our newsletter and key information distribution resource, has gained recognition as one of the leading LTAP newsletters in the nation. We are excited with how the newsletter has grown into a Washington centered technical digest that continues to grow and improve. One of the biggest and most rewarding changes in the WST2 has been agency response to providing articles on new technologies they are engaged in. Reader participation is a rewarding trend in the WST2 and we will be working to help it grow

During the year we have seen our " Build a Better Mousetrap" program go into full swing with the awarding of the second set of Crystal Mouse Awards. It was exciting to see the first local agencies receive recognition for their inventions this year. There were three teams recognized in 2002, one each from a city, a county, and a state agency. It was also exciting to see the duplication of the "Build a Better Mousetrap" program in other T2 Centers around the country. Iowa, Alaska, and Hawaii have started their own programs and many other T2 Centers routinely reprint "Mousetraps" published in the WST2. Others also appreciate the ideas published in the WST2. One of the Crystal Mouse Award winners, the city of Renton's Asphalt Distributor Waste Diesel Recycling System, received a New Technology Award from APWA as a result of being published in the WST2.

The WST2 Center is beginning to develop a process to track the spread of the mousetrap ideas. Preliminary research has been very rewarding with ideas being incorporated by other shops within an agency, by state and local agencies and even by DOT's across the country. Each time the idea was passed on it was modified and improved.
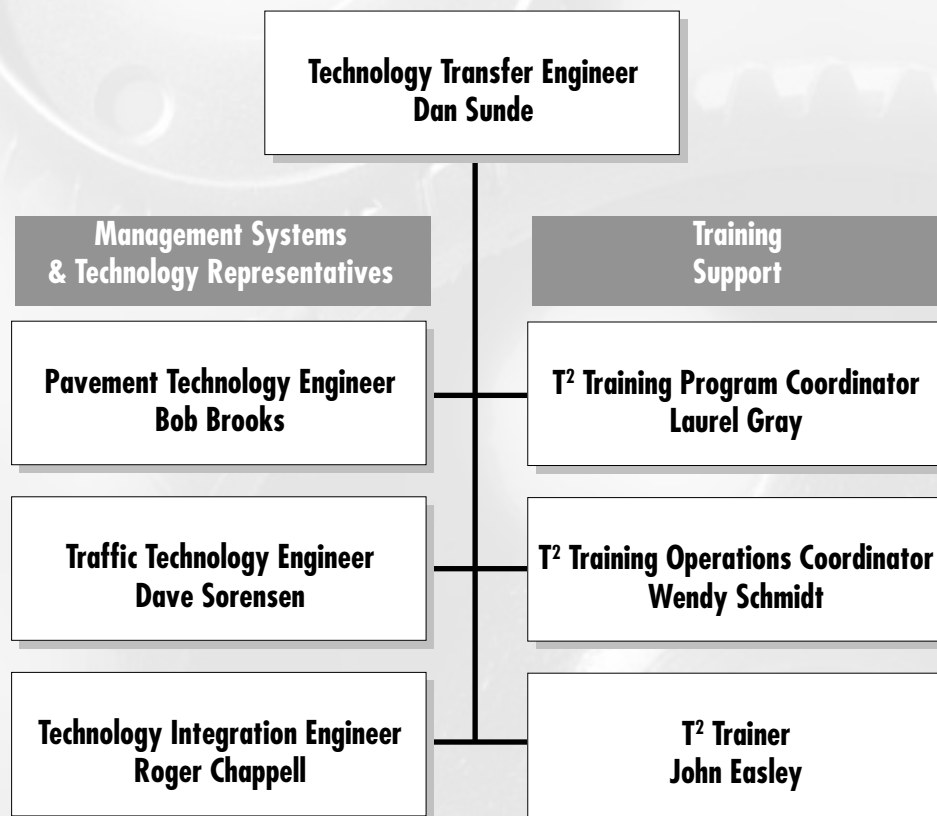
Even as tough as the economic times were during 2002 we were pleased to see the Pacific Northwest Transportation Technology Expo hold steady. Over 700 state and local agency transportation workers shared their own inventions and picked up new technology at the third PNTTE. This solid showing will go a long way in helping to establish the Expo as an ongoing event to help transmit new ideas developed in the field and commercially.

During 2002 the WST2 Center has found itself more active at the national level and playing a leadership role. WST2 staff members are regularly asked to sit on national committees and to represent our regional counterparts. At the National LTAP Conference in Vermont, the WST2 Center was recognized by the National LTAP Association Executive Committee as one of three outstanding T2 Centers in the country. The Center's success is a strong indicator of the dedication of the WST2 staff, and the high level of support provided the WST2 Advisory Committee, WSDOT management and FHWA. I believe we can all be pleased with this partnership between the WSDOT, FHWA and Washington's local agencies.

Daniel L. Sunde, P.E.
Technology Transfer Engineer

Washington State Technology Transfer Center

Technology Transfer Engineer
Dan Sunde

**Management Systems
& Technology Representatives**

**Training
Support**

Pavement Technology Engineer
Bob Brooks

T^2 Training Program Coordinator
Laurel Gray

Traffic Technology Engineer
Dave Sorensen

T^2 Training Operations Coordinator
Wendy Schmidt

Technology Integration Engineer
Roger Chappell

T^2 Trainer
John Easley

Your WST2 Center Staff

Dan Sunde, PE
Technology Transfer Engineer

As a professional engineer and principal in charge, directly responsible for the development, coordination, monitoring, implementation, and management of the program.

Laurel Gray
T2 Training Program Coordinator

Develops and coordinates the WST2 training programs and courses for local agencies, WSDOT, and consultants. Works with staff engineers in developing specialized training programs. Coordinates a clearinghouse of transportation related training for Washington's local agencies. Conducts surveys of training needs. Develops, publicizes and distributes training information via the web, list serves, and newsletters. Responsible for Retired Professionals Program and Student Referral Program.

Bob Brooks
Pavement Technology Engineer

Provides general engineering and technical support to local agencies with an emphasis in pavement maintenance, design and construction, and Pavement Management Systems (PMS). Develops technical materials and aids as required. Develops classes as agencies identify needs, provides field support, and acts as a "clearinghouse" of information. Coordinates and assists in networking pavement managers statewide.

Wendy Schmidt
T2 Training Operations Coordinator

Coordinates the training program registration process and classroom sessions. Manages the program database. Maintains records of all training and information requests. Assistant Editor for the WST2 Newsletter. Works extensively with the "Mousetrap Program" and Pacific NW Transportation Technology Expo. Maintains the Center's mailing list and provides office support to the WST2 Center staff.

Dave Sorensen
Traffic Technology Engineer

Provides general engineering and technical support to local agencies with an emphasis in traffic/safety design and the Local Agency Safety Management System (LASMS). Develops classes as agencies identify needs, provides field support, and acts as a "clearinghouse" of information. Develops technical materials and aids as required. Coordinates and assists in networking traffic safety managers and technicians statewide.

Roger Chappell
Technology Integration Engineer

Provides technical support to local agencies in Geographical Information Systems (GIS), Global Positioning Systems (GPS), automated data collection, and other systems that support engineering and infrastructure management. Provides field support and classroom training. Provides technical assistance in producing training and technical support materials and special projects such as manuals and training videos.

WST2 "Roadshow" Trainer

Provides "on-site" training for a four-month training season during the spring. The trainer presents training sessions that provide informal classroom instruction using video media augmented with handout materials. As a part-time employee, the trainer works approximately 750-person hours/year in providing local agency training.

Products and Services for 2002

The WST2 Newsletter

The WST2 Newsletter has become the Center's central tool for information sharing and continues to receive strong approval and feedback. Our readers continue to submit articles for publication and it has become a platform for many groups like FHWA, NWPMA, NHTSA, the WSDOT Library, Research Office, Mats Lab.

The WST2 was published four times during the year. A total of over 13,000 copies were distributed to subscribers within Washington and British Columbia; another 125 copies were sent each quarter to countries around the world via FHWA's International Programs.

In 2002 a publishing editor was added to the WST2 staff. The layout process was automated reducing layout time from six weeks to about three to four days. And an on-line resource page was added to the content of the publication.

Readers are enjoying the newsletter - they chuckle at the "Sign of the Times" on the inside back cover. They continue to share humorous pictures of signs they encounter in their every day lives and travels.   The "Mousetraps" remain a pivotal section with detailed instructions and drawings of maintenance tools and equipment modifications that state and local agency employees submit for publication. Photos and articles on the Pacific Northwest Transportation Technology Expo are showcased, and Mousetrap winners are announced for the three "Crystal Mouse Awards." Technical articles are published by staff engineers, and reprints of articles from LTAP centers around the country are included. Customers appreciate being kept informed of training news and conferences. Feedback from our customers tell us if we are on the right track. Some letters from our readers:

"Dan, I need to apologize for not sending this note a long time ago, but as we all know in government there is to much to do and to little time to do it in.
I have wanted to thank you and your staff for some time now. It is very evident in all the hard work we see coming from your office. Myself, and others, have really enjoyed the newsletter, which looks more like a magazine. It is so refreshing to be able to pick up a document such as this and have the latest and greatest training opportunities at our fingertips. I don't have the time to track down the various training opportunities and it is nice to know someone is. I hope you can continue with this type of support for all of us out in the real world. I would like to encourage you to look for ways in which this could be expanded to reach out for more opportunities. And as I think about it, is very helpful for a supervisor when we are looking for ways to grow our staff, to be able to pick up a document such as this and have a compressive list of training. Keep up the great work and please pass on to your staff that we out in the industry really appreciate all their hard work and dedication to helping us improve our ability to serve the public.
For the past few years I have attended the expo at Moses Lake. I know from my experience and speaking with others that this show has been very beneficial. I have been able to talk to my counter parts from all over the state and have been able to come home with lots of new ideas.
'Again thanks to you and your staff for all the effort they put into this show, and thank you Dan for your leadership in taking theT2 Center to the next level."

> *Ken Corcoran*
> *Pierce County Traffic Operations Supervisor*
> *Pierce County Public Works*

'I really appreciate the magazine. It is not only informative but it is a very professional document all around. Thanks again."

> *Wayne Kelsey*
> *Project Manager*
> *Multnomah County, Oregon*

*"Dan,
Just got the time to read my copy of the recent WST2 Newsletter. Great issue! Enjoyed it loads. I appreciate being on the mailing list, and always find some uses for different articles from the newsletter as I do my Oregon circuit riding for Liz Hunt – who, incidentally, also puts out a useful Oregon Roads newsletter."*

> *Bill Kolzow*
> *Circuit Rider*
> *Oregon T2 Center*

*"I found and have found this publication to be very easy to read, very informative and timely, and what inventions and time savers those employees can dream up. The graphics and photo presentations are outstanding for any state agency. Believe me, I should know I have been doing them for twenty years now. Congrats on a good, informative professional looking publication and I look forward for more to come.
Thanks."*

> *Bruce Estus*
> *Air Quality Program*
> *Web Coordinator and Graphics*

*"Good job with the Bulletin. I always look forward to reading through the articles and catching up on new technology, etc. We pass the Bulletin around throughout the staff here at the Operations Division.
I do have a question tho! You used to have a section that listed links to other web sites that I liked for two reasons. 1) I usually found a site that attracted my attention as a resource, and 2) you listed the Southwest Washington Inter-agency Cooperative (GEM) web site. Are you considering the re-listing of appropriate web sites? If so, please consider GEM once again. Thanks, and keep up the good work!"*

> *Bruce Cross*
> *Clark County Public Works*

2002 Pacific Northwest Transportation Technology Expo (PNTTE)

Another successful Expo was held at the Grant County Fairgrounds in Moses Lake September 11th and 12th. More than 700 state and local agency transportation employees attended the two-day event. To mark the first anniversary of the September 11, 2001 attack on the World Trade Center, a moment of silence was held at the opening ceremonies. The National Work Zone Memorial was displayed in the center field along with many vendors and agencies displaying their equipment and products.

The WST2 exhibitor booth was a popular stop on the way through the vendor displays in the exhibition hall. More than 200 PNTTE hats were given to attendees in exchange for votes for their favorite Mousetrap. Publications were available for the taking, and the booth ran out of both hats and publications.

A streaming web video was produced with the assistance of a WSDOT film crew, and has been posted to our web site. In addition, the Mousetraps were videotaped and are now online, and still shots of the Expo are shown online in an "Expo Gallery."

Building Better Mousetraps in 2002

The "Build a Better Mousetrap" program that was started in late 2000 continued into full implementation in 2001. In 2002 it gained popularity to become a valued program with many Mousetraps being reproduced across the state and country. The purpose of the program is to:

- Recognize the initiative and innovative thinking of public agency transportation staff in the development of tools, equipment modifications, and processes that increase safety, reduce cost, improve efficiency, and improve the quality of transportation.

- Identify and help distribute ideas created in the field so others can duplicate them and implement them.

- Promote continued improvement.

The 2002 Crystal Mouse Awards

The Crystal Mouse Awards are presented to the team (inventor, fabricator and supervisor) that produced the Mousetrap with special recognition given to the inventor. Each year three awards are given:

- Best of Show in Hand Tools
- Best of Show in Equipment/Equipment Modification
- Best Mousetrap Published in the WST2 Newsletter

The attendees at the Pacific Northwest Transportation Technology Expo vote for the best of show in two categories: hand tools and equipment. The WST2 Advisory Committee selects the best idea published in the WST2 Center's newsletter.

Selection for the three awards is based on five criteria:
1. Safety
2. Cost Savings
3. Inventiveness
4. Transportability
5. Effectiveness

Crystal Mouse Award Winners for 2002

Best of Show in Hand Tools

Jackhammer Storage Unit
City of Oak Harbor Public Works

• Inventor and Fabricator: Keith Jameson, Al Baza
• Supervisor: Ed McNeill

Best of Show in Equipment/Equipment Modification

Gravel Road Maintainer
Douglas County

• Inventor and Fabricators: Ken Willms, Dave Mires,
  Robert Mires, Dell Mires, Lyle Eggers
• Supervisor: Ken Willms

Best Mousetrap Published in the WST2 Newsletter in 2002

Under Guardrail Cleaner
WSDOT Chehalis Maintenance

• Inventors: Jack Moltz and Daryl Sprague
• Fabricator: Bob Steel
• Supervisor: Larry Stritmatter
• Superintendent: Paul Simonsen

Technical Support and Distribution of Technical Materials

The WST2 Center supports local agencies by fielding questions, providing liaison support and facilitating networking between the agencies, WSDOT, and FHWA. In 2002 the Center provided over 100 field-support visits by staff and provided office assistance over 21,000 times. Office assistance is defined as telephone, fax and e-mail contact with our customers. It includes interaction with our many students enrolled in the training program.

The Center also develops and distributes technical information that is pertinent to local agencies. In 2002 the Center distributed over 20,000 publications and CDs. Publications are taken to six to eight conferences each year and are well received. This number also includes textbooks given to students in 87 classes in 2002. More than 21,000 "hits" were received on the front pages of our four major WST2 web sites.

A collection of technical manuals - on Pavement, Construction and Maintenance - as well as software applications, and past WST2 newsletters have been collected on one CD and distributed to our customers as the "WST2 CD Library." This CD is updated twice a year and new publications added. It has become a popular and eagerly anticipated item for our local agency customers.

The WST2 Mailing List and List Serves

The management of mailing lists saw a major revision in December 2002 when we began moving all training material distribution to a list serve. With the need to become more efficient in advertising, a major effort was undertaken to transfer customers from receiving hard copies to receiving course brochures and quarterly Educational Opportunities via list serve. Over 500 Washington State local agency personnel added their names to the list serve by year end. As a result, the center has experienced faster registrations in most classes, a savings of over $10,000 in printing and postage costs, and a wholehearted acceptance of the new process on the part of our customers. Hard copies continue to be mailed to a handful of agencies who are unable to receive e-mail.

Enhanced Use of Web Pages

The Center has expanded the use of the Internet. In 2002 all web pages were updated and reformatted to comply with new WSDOT standards. A Mousetraps web site was added as well as video streaming movies of the Mousetraps. WST2's newly produced video "Driving Modern Roundabouts," is now being video streamed on WSDOT's Design Visualization web site.

As a great example of technology transfer, the WST2 Center invested resources to develop a streaming video for GIS Day in Kittitas County. This video was made for the K-12 educational activities to promote GIS education. The video can be viewed on our Geo-data web page.

In addition, other services were initiated or improved:
- Historical issues of the WST2 Newsletter were posted to the web site.
- Online Mousetrap registration was initiated to alleviate the confusion of first-day registrations at the Expo.
- Pdf's of Mousetrap articles and plans on how to build them were posted.
- List serves saw a dramatic jump in subscriptions.
- The TRAIN list serve became a useful tool for Pierce County local agencies.

Educational Opportunities Brochure

This catalog of T2 training classes and workshops also contains training opportunities provided by other public and private sources. It was distributed quarterly in 2002 to over a thousand subscribers to our mailing list. At years end, this publication began distribution over the internet.

T2 Audio-Visual Catalog

The Center continued to provide a catalog of the complete T2 Video Library. It includes the description of each tape and its target audience. It also categorizes the videos by subject and key words as well as lists them by tape number. The catalog is on the web. The center loaned nearly 300 videos to customers this year.

Retired Professionals Data Base

We continue to maintain an internet based database of retired professionals who are actively interested in working for local agencies. Available on the web site is a one-page summary for each individual with detailed information on past work experience, when and where they are available to work, degrees and licenses. Local agency personnel view the web site and contact the retired professional directly. The program will be upgraded in 2003 with on-line capability for editing, or adding new profiles.

Student Job Referral Service

The Center also continued the Student Referral Service. We ask local agencies to let us know of available summer work opportunities in their agencies and then advertise these jobs to the colleges, universities, and technical schools around the state via a web site. The program is for students who are actively working toward a degree in civil engineering or related technical program. When jobs come in, they are posted to the web site and students are able to view them and contact the agency directly. Twelve agencies responded in 2002 with approximately 40 jobs announced. Due to the economic climate this is down from a previous 2001 high of 19 agencies and over 100 jobs.

ClearVue

In 2001 at the request of cities, WST2 developed a beta version of ClearVue, a database for agencies to fill out grant applications and track their progress. This program continued thru 2002. The system includes forms, support tables, and preformatted reports.

"Driving Modern Roundabouts" Video

The cities of Lacey and Olympia approached the WST2 Center for help in producing a much needed video on how to drive roundabouts. "Driving Modern Roundabouts" is a ten-minute video giving rules of the road for driving the several new roundabouts in Thurston County. The video has been broadcast on local public access channel Thurston County Television, TCTV Channel 3, and is continuously replayed in half-hour and hour time slots. It will be broadcast through July 2003. Copies of the tape are available in VHS, DVD or CD, or are available on the web. The city of Olympia awarded Dave Sorensen and the other members of the production team a certificate of appreciation for the video and the partnership.

WST2 Training Program

Training continues to be a major focus of the WST2 Center. With coordination of 87 training classes, running predominately in the spring, our training staff was very busy. This amounted to over 24,000 student hours of instruction. Additionally, local agency personnel attended 39 WSDOT construction classes with 2,000 student-hours of instruction.

On-Line Class Registration

Local Agency employees are now using the online registration process for classes offered by WST2. Instituted in January 2002, the internet-based program allows local agency employees to select a class from an alphabetized list of currently offered classes. When the T2 Center acts upon the registration request, an e-mail registration notice is immediately returned to them. Approximately 95% of all class registrations are now handled online. The automated system has saved many hours of manual data entry. Since its inception, 2,700 student registrations have been handled online.

WST2 Database

WST2's training database continues to keep the Center's training program current and accurate. Named "T-Base," the FileMaker Pro database has been in use three years, evolving and changing as needs arise. It currently contains 4,391 students, 103 courses, 314 classes, 227 facilities, as well as the WST2 Center's Video Lending Library and check-out history. The WST2 Center has sent copies of T-Base to five other state LTAP centers and to Slovakia to help them develop their own training program.

A Survey of Training Needs

To determine if WST2 is meeting the needs of our customers, an electronic survey was developed to see if we are on the right track. We asked all Public Works Directors to let us know what their training priority is in four categories: engineering, maintenance, project, and other. With about 75 responses, the survey showed an even distribution of need in engineering, maintenance, and project related training. The WST2 Center's training program is in line with these three areas.

Road and Street Management Training Program

A training program for pavement managers was begun in 2001 with input from the Northwest Pavement Manager's Association. The program was structured around the training matrix finalized by the Training Committee of the NWPMA. The program is comprised of a set of ten required core courses that provide the needed technical skills, and seven electives that allows for more specialized training in an area of ones choice. A student should be able to complete the core set of courses and at least one elective in a two to three year period and earn a Certificate of Achievement (CA) in Road and Street Management.

LAG Training Program

Began aggressive development of new courses for the Local Agency Guidelines (LAG) program. Courses added or improved were: Appraisal Review Overview, Contract Specification Writing, Environmental Overview for Local Agencies, Right of Way Plans Preparation, and Change Orders.

Regional Road Maintenance Endangered Species Act (ESA) Training Program

The Endangered Species Act 4(d) training program became a reality in 2002 with the University of Washington's TRANSPEED program assuming responsibility for teaching the four training tracks under T2 oversight. Funding came from the existing TRANSPEED program and student fees. Training classes have been underway since March 2002 and as of November, over 700 local agency registrants have taken 22 class offerings.

Roadshows - A Local Agency Favorite Program

The WST2 Center had another outstanding year in the Roadshow Program in 2002. John Easley, Roadshow Trainer, once again traveled the state taking training directly to Washington's cities and counties with the WST2 Spring Roadshow. The training sessions were customized for each agency and covered a wide variety of topics including:

- Flagging
- Road Rage
- Work Zone Safety
- Heavy Equipment Operation
- Maintenance and Construction Safety
- Pothole Patching
- Sign Maintenance
- Snow and Ice Control
- Utility Cuts
- Trenching and Excavation

Over a four-month period John conducted 172 training sessions, providing 514 hours of instruction to 1,724 students for a total of 5,174 student-hours of training. To accomplish this, John drove in excess of 15,300 miles.

Summary of the 2002 WST2 Training Program

Classes by H&LP Staff	Clases	Hrs. Per Class	Total Hrs. of Instruction	Students	Student - Hrs.
Bridge Condition Inspection Update	2	16	32	45	720
Bridge Construction Inspection Fundamentals	2	24	48	69	1,656
Bridge Condition Inspection Training	1	72	72	48	3,456
Land Use Areas w/ Potential for Ped Travel	5	6	30	22	132
Total	10	118	182	184	5,964

Classes Sponsored or Co-Sponsored by the WST2 Center	Clases	Hrs. Per Class	Total Hrs. of Instruction	Students	Student - Hrs.
Access Management Location & Design	1	24	24	22	528
Advanced Biological Assessment Preparation	2	7	14	149	1,043
Anatomy of a Grant: Grantwriting	5	16	80	66	1,056
Basic Supervisory Skills	1	6	6	23	138
Basics of a Good Gravel Road	4	6.5	26	128	832
Construction Documentation	13	7	91	301	2,107
CORISM	1	21	21	5	105
Cultural Resources Workshop	1	36	36	47	1,692
DBE Training	2	16	32	6	96
Design & Construction of Concrete Pavements	2	6	12	39	234
Design Construction & Maintinance of Highway Safety Apparatus	1	16	16	17	272
Drainage Workshop	1	8	8	47	376
Fundamentals and Abatement of Highway Traffic Noise	1	28	28	3	84
Fundamentals of Environmental Justice	2	14	28	8	112
Human Factors for Transportation Engineers	4	7	28	31	217
Intro to Designing Highways for Aging Drivers	3	7	21	18	126
Intro to ESA & Biological Assessment	2	8	16	100	800
Intro to Federal-Aid Financing for Transportation	1	8	8	32	256
Intro to GPS Mapping Grade Equipment	4	24	96	16	384
LAG Manual Overview	1	6	6	24	144
MUTCD State Adoption Process	5	3	15	86	258
Pavement Conditioning Rating Workshop	3	12.5	37.5	87	1,087.5
PS&E	4	16	64	95	1,520
Restoration of Aquatic-Species Passage	1	36	36	21	756
Snow & Ice Control Chemicals	6	4	24	87	348
Stream Stability and Scour	1	24	24	23	552
Traffic Control Software & Signalization	1	12	12	30	360
WZ Traffic Control Software & Signalization	3	8	24	55	440
WS Traffic Control Supervisor's Seminar	1	24	24	6	144
Total	**77**	**411**	**857.5**	**1,572**	**16,067.5**

Classes Provided in Partnership with WSDOT Regional Trainers	Clases	Hrs. Per Class	Total Hrs. of Instruction	Students	Student - Hrs.
Aggregate Production Inspection	3	7	12	16	64
Asphalt Paving Inspection	2	7	16	13	104
Drainage Inspection	6	7	48	35	280
Electrical-Illumination and Signals	5	7	80	25	400
Excavation and Embankments Inspection	6	7	48	44	352
Miscelaneous Documentation	3	7.5	24	17	408
Nuclear Gauge-Operator Qualification	5	7	35	15	105
Nuclear Gauge, Embankment/Surfacing/Pvmt.	5	7	40	23	184
PCC Field Testing Procedures	4	7	32	25	200
Total	**39**	**63.5**	**335**	**213**	**2,097**

Total 2002 Classroom & Workshop Training*	
Training Classes Offered	**126 Classes**
Number of Training Hours Provided	**599.5 Hours**
Students Trained	**1,969 Students**
Student Hours Conducted	**24,129 Class Hours Offered**

* Note: Does not include training provided as part of conference sessions or the WST2 Road Show Program.

Conferences for 2002

Attendance at conferences is an important part of WST2 outreach. The Center sponsored and/or participated in many conferences this year, and attended others as an exhibitor on behalf of the Center. Staff participated on planning committees, moderating sessions, as speakers, and provided pre-conference workshops.

Summary of WST2 Conference Activities

Road Builders' Clinic, Coeur d'Alene, Idaho
- Dan Sunde, Technology Transfer Engineer
  - Member of the conference planning committee.
- Laurel Gray, WST2 Training Program Coordinator
  - Organized and managed the WST2 booth and display
- Dave Sorensen, Traffic Technology Engineer
  - Developed and delivered the "Traffic Solutions" workshop.

APWA Spring and Fall Conferences, Stevenson, Spokane
- Laurel Gray, WST2 Training Program Coordinator
  - Organized and managed the WST2 booth and display

NW Pavement Management Association, Spring & Fall Conferences, Spokane & Kennewick
- Bob Brooks, Pavement Technology Engineer
  - Member of the Advisory Committee and the conference planning committee.
  - Assisted with development of the agenda and coordinated speakers.
  - Sponsored a 6-hour course on "Basic Supervisory Skills."
  - Assisted with conference operations.

Pacific Northwest Transportation Technology Expo, Moses Lake
- Dan Sunde, Technology Transfer Engineer
  - Co-sponsored the event.
  - Co-chair, Planning Committee.
  - Event photographer.
- Roger Chappell, Technology Integration Engineer
  - Coordinated and supervised the filming of the event and production of a documentary video
- Wendy Schmidt, WST2 Training Operations Coordinator
  - Registered and documented the Mousetraps.
- Laurel Gray, WST2 Training Program Coordinator
  - Organized and managed the WST2 booth and display, and assisted with the Expo operations.

Road and Street Maintenance Supervisor's School East, Spokane
- Dan Sunde, Technology Transfer Engineer
  - Co-chair, Conference Planning Committee.
- Roger Chappell, Technology Integration Engineer
  - Moderator and speaker
- Dave Sorensen, Traffic Technology Engineer
  - Managed the WST2 booth and display.

Road and Street Maintenance Supervisor's School West, Tacoma
- Dan Sunde, Technology Transfer Engineer
  - Co-chair, Planning Committee.
- Roger Chappell, Technology Integration Engineer
  - Moderator and speaker
- Laurel Gray, Training Program Coordinator
  - Organized and managed the WST2 booth and display.

2002 Pacific Northwest Bridge Maintenance Conference, Portland
- Laurel Gray, Training Program Coordinator
  - Organized and managed the WST2 booth and display and assisted with registration.

National LTAP Conference, Burlington, Vermont
- Dan Sunde, Technology Transfer Engineer
  - Member of the conference planning committee.
  - Coordinated and moderated a pre-conference session on "Technical Support for Local Agencies."
  - One-hour presentation on how to publish a successful newsletter.

Context Sensitive Solutions Regional Workshop, Seattle
- Dave Sorensen, Traffic Technology Engineer
  - Member of the workshop development team.

Urban & Regional Information Systems Association (URISA) Conference, Bellevue
- Roger Chappell, Technology Integration Engineer
  - Speaker- "GIS & the Use of Digital Imaging Platforms"

URISA Conference – British Columbia Chapter, Vancouver, British Columbia
- Roger Chappell, Traffic Integration Engineer
  - Speaker- "GIS & the Use of Digital Imaging Platforms"

Summary of Conference Training*

Associations	# Sessions	Hrs. Per Sessions	Total Hrs.	Students	Student - Hrs.
Road Builders' Clinic	1	4	4	245	980
NWPMA Spring Conf.	1	12	12	81	972
NWPMA Fall Conf.	1	20	20	60	1,200
PNTT Expo	1	14	14	700	9,800
Road & Street School - East	1	4	4	108	432
Road & Street School - West	1	4	4	114	456
URISA Conference - Bellevue	1	1	1	40	40
URISA Conference - B.C.	1	1	1	90	90
New GIS User's Group	1	1	1	100	100
Traffic Solutions Workshop	2	4	8	45	360
Total	11	65	69	1,583	14,430

Total FY 2002 Conference Training

Sessions Offered	11 Sessions
Students Trained	1,583 Students
Student-Hours Conducted	14,430 Student Hours

* Note: Training numbers are approximate

WST2 Center Committees and Memberships

Associations

- National Local Technical Assistance Program Association (NLTAPA)

- LTAP Clearinghouse Advisory Committee, (Chair Information Subcommittee)

- American Public Works Association (APWA)

- National Association of County Engineers (NACE)

- Eastern Washington Association of County Road Supervisors (EWCRS)

- Western Washington Association of County Road Supervisors (WWCRS)

- Washington Association of Signing and Striping Personnel (WASSP)

- Northwest Transportation Training and Education Alliance (NWTTEA)

- Training Resource And Information Network (TRAIN)

- Urban Traffic Engineer's Council (UTEC)

- URISA- British Columbia Chapter

- Central Puget Sound GIS User Group

- Northwest Pavement Management Association (NWPMA), Executive Committee

- Washington Geographic Information Council (WAGIC)

Committees

- National Local Technical Assistance Program Association (NLTAPA), Conference Planning Committee

- Pacific Northwest Transportation Technology Expo Planning Committee, Co-chair

- Road Builder's Clinic Planning Committee

- Road & Street Conference Planning Committee, Co-chair

- Transportation Professional Development Executive Committee

- Washington Traffic Safety Commission Traffic Records Committee

- Northwest Pavement Management Association (NWPMA), Training Committee

- Northwest Pavement Management Association (NWPMA), Visual Rating Committee

- Northwest Pavement Management Association (NWPMA), Planning Committee

- Regional Road Maintenance ESA Team and Training Committee

- Combined Transportation Inventory (CTI) Team

- WA State GPS Users Group

- WSDOT Joint GIS Coordinators Team

- Web Technology Interest Group, Chair

- WSDOT Web Page Design Committee

- Washington Geographic Information Council (WAGIC) Transportation Framework Committee

- WSDOT GPS Receiver Selection Team

- Geospatial Framework Committee

WST2 Advisory Committee — 2002

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